

Designer's Assessment of Safety and Health Hazards/Risks (M&E)			
Project: Heating Upgrade & Gas Conversion Emergency Works St Joseph's Community College, Kilkee, Co Clare			Job Nr.: 2628
Designer: J Fahey	Checker: J. Fahey	Date: 09/09/2026	Sheet No: 1
Stage: Detailed Design / Tender Stage			
No.	Key Construction Hazard (or risks) Identified	Evaluations, Design decisions made (or alternative Actions)	
1.	Asbestos	Due to the age of the main school building there is a risk that there is asbestos present. The available Asbestos Survey and Report does not list asbestos being present, however vigilance is recommended. It is not envisaged that the proposed Heating Upgrade works will disturb asbestos materials and it is therefore proposed that works can proceed with all due care and precautions being taken by the appointed contractor. Alert tendering contractors to the risk of asbestos and the need for vigilance should any suspect materials be encountered. Copy of the available Asbestos Survey Report provided for contractor information	
2	Existing Overhead ESB 10/20kV Power Lines Crossing Site	There are existing ESB Networks overhead 20/10kV Power Lines crossing the site as indicated on the drawings. These present a risk during the construction phase. In order to mitigate the potential risk to construction traffic / activities the contractor shall liaise with ESB Networks and must comply with the current Code of Practice for Avoiding Danger from Overhead Electricity Lines which is available for download from the ESB Website www.esb.ie	
3	Existing Underground ESB 10/20kV Power Lines Crossing Site	There are existing ESB Networks underground 20/10kV Power Lines crossing the site as indicated on the accompanying drawings with MV cables present along the boundary to the south of the proposed new gas compound. These cables will remain live for the duration of the works. The risk of accidental contact by excavation plant / drilling plant will be minimised by locating any proposed services clear of the existing cables. In order to mitigate the potential risk to construction activities it is recommended that the exact location and route of these underground cables be identified by the main contractor By Ground Penetrating Radar survey (GPR) at commencement of the contract and that the cables route be identified / highlighted and adequate warning notices erected in advance of the main construction work activities commencing. Preliminary site investigation/ hedge removal works and all construction works / excavation works in the vicinity of these underground cables must comply with the current Avoidance of Electrical Hazards When Digging / Drilling which is available for download from the ESB Website www.esb.ie	

4	Work in and around a live operational Secondary School Campus during the Autumn Term with members of staff and students, and members of the public present during normal school hours	The proposed Phase 1 Heating Centre upgrade works will be completed during the Autumn school term in a live secondary school campus environment with school staff and over 200 students on campus during normal school hours for the duration of the autumn school term. Note in the contract documents that the contractor must strictly control access to the work areas. Contractor to prepare risk assessments and method statements for safe completion of the proposed Phase 1 upgrade works in consultation with the school management and project manager and must allow flexibility for unforeseen changes and events. Upgrade works to be scheduled outside of normal school hours where necessary to ensure the health and safety of the school population
5	Work on Live Electrical Apparatus	The existing electrical services will remain live and there is a risk of back feeds to services that are being made redundant and stripped out. Contractor to ensure all electrical works in connection with the upgrade are carried out by competent electricians having completed a site specific risk assessment. No live line works shall be permitted
6	Nuisance Fire Alarms	Fire detection and alarm systems must remain operational within the school at all times. There will be a significant element of demolition and refurbishment works within the working areas which may give rise to dust, fumes and smoke with the potential to raise nuisance fire alarms potentially leading to loss of confidence in the system. Note in the contract documents that the contractor must put in place a permit to work system for works within the working areas which will include covering / isolation of fire alarm detector heads locally prior to commencement of any works with potential to trigger a nuisance alarm. Fire alarms detectors must be placed back in service on completion of the works to ensure that the college campus is provided with automatic fire detection for protection of life.
7	Contractor Site Set up and Establishment	The contractor shall be working on a shared site with other contractors completing other works during the autumn school term. The contractor will also be working in a live school environment during the autumn term and there is a risk of students entering the contractor site and / or compound, Note in the contract documents that the works contractor is required to segregate the contractor's site establishment compound including office, stores and welfare facility completely from the other contractors works areas and the operational school campus with secure barriers which must be kept in place at all material times to control access and ensure the health and safety of the school population and members of the public visiting the school and other contractors personnel on site.
8	Work in and around manholes to underground drainage systems with risk of vermin and Weils disease (Leptospirosis)	The works will involve making connections to underground pipework systems and Personnel working in areas likely to be contaminated (where rats and vermin are present) must ensure that any cuts, abrasions or scratches are carefully cleaned with sterile wipes or soap and water, and covered with waterproof dressing or appropriate dressing. After contact with raw water, the hands and the forearms must be thoroughly washed with soap and water especially before eating, drinking or smoking, and persons must also avoid rubbing their nose, mouth or eyes during work. Wherever possible protective clothing including impervious gloves must be worn to avoid any contact with infectious materials. Leptospirosis cards should be issued to those employees at risk and this must be shown whenever you attend your doctor or hospital. Contractor to provide relevant Information, training and instruction on Weil's disease, in the form of Toolbox talks.

9	Program Constraints – risk of school closure	The Phase 1 program of works is very constrained requiring a working heating system by Nov 2nd to avoid school closure due to lack of space heating. The contractor shall adequately resource the project to ensure safe delivery within the available program dates and shall allow for off-site fabrication of the headers and pipework and for extended working hours as required to deliver the .	
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Notes re providing information		Item Nos. (from above)	Remarks
a) For client's designers [Section 4.3]		1 to 8	
b) 'Schedule 1'hazards/particular risks [Box C & F019]		1, 2 & 3	
c) Other 'particular risks [Box C & F020]		4 to 9	
d) Re assumed construction methods[Box C & F020]			
e) For Safety File [Section 4.5]		1 to 9	
f) In-house: b/f to future stages		1 to 9	

Note: Section reference are to “Design for Safety in Construction” June 2010

Other parties please take note: These are designer's risk evaluations of design options carried out in-house for the purpose of our complying with designer's duties under the Safety, Health and Welfare at Work (Construction) Regulations 2006. The evaluations relate only to those aspects /elements of the project which we are responsible for designing under the terms of our appointment by our client. Other parties should not rely on these evaluations for their own purposes; in particular, contractors, who must deal with and control all risks arising during construction, must carry out their own definitive risk assessments *ab initio* for that purpose.

Information For The Project Supervisor Design Process			
In relation to that section of the Project which under the terms of our appointment by the Client we are responsible for designing/specifying			
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Stage: Detailed Design / Tender Stage			
'Particular Risks': The following comprises our opinion of when we believe construction of our design will involve any of the ten forms of work listed in Schedule 1 of the Regulations and thus gives rise to statutory particular risks. • Work which puts persons at work at risk of (a) falling from a height, (b) burial under earthfalls, or (c) engulfment in swampland, where the risk is particularly aggravated by the nature of the work or processes used or by the environment at the place of work or construction site. • Work which puts persons at work at risk from chemical or biological substances constituting a particular danger to the safety and health of such persons or involving a statutory requirement for health monitoring. • Work with ionizing radiation requiring the designation of controlled or supervised areas as defined in Directive 96/29/Euratom. • Work near high voltage power lines. • Work exposing persons at work to the risk of drowning. • Work on wells, underground earthworks and tunnels. • Work carried out by divers at work having a system of air supply. • Work carried out in a caisson with a compressed-air atmosphere. • Work involving the use of explosives. • Work involving the assembly or dismantling of heavy prefabricated components. Note: Where a particular risk is present, and where the presence of this work or its associated particular risks would not otherwise be apparent to a competent contractor, the work/hazard (or the particular risk) should be described for inclusion in the Preliminary Safety & Health Plan. We consider that the particular risks listed above, where present, would be apparent to a competent contractor.			Exist (YES/NO) No Yes (risk of asbestos) No Yes No No No No No

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Other Particular Risks:

Other particular risks (i.e. risks which are substantial and unusual in the context of the project) which we have identified:

Note: Where a particular risk is present, and which would not otherwise be apparent to a competent contractor, the work/hazard (or the particular risk) should be described for inclusion in the Preliminary Safety & Health Plan.

- Members of employers staff, students and members of the public present on site in and around the school during normal school hours
- Other contractors on site
- Work in the vicinity of the live electrical services.
- Nuisance / False Fire Alarms due to construction activities
- Work on under pipework systems with risk of Weil's disease
- Program Constraints to avoid school closure

Exist
(YES/NO)

Yes

Yes

Yes

Yes

Yes

Yes

Yes